

What we claim is:

Sub 37

1. A golf ball comprising:
  - a core;
  - 5 a cover disposed over said core, wherein said core is a blend of polymers comprising:
    - a first polymer having a melt index of about 2 to 10 grams/10 min, a flexural modulus of 60,000 to 80,000 PSI, a shore D hardness of about 60 to 70;
    - and,
    - 10 a second polymer having a melt index of about .2 to 2, a flexural modulus of 2,000 to 8,000 PSI;
    - a plurality of dimples arranged to coincide with a modified dodecahedron pattern on said cover.
- 15 2. The golf ball of claim 1 wherein said first polymer is an olefin/unsaturated carboxylic acid copolymer.
3. The golf ball of claim 2 wherein said second polymer is an olefin/unsaturated carboxylic acid/n-butyl acrylate copolymer.
- 20 4. The golf ball of claim 3 wherein said first polymer is an ethylene/methacrylic acid copolymer having about 17% to 21% by weight of said methacrylic acid.

5. The golf ball of claim 4 wherein said second polymer is an ethylene/methacrylic acid/n-butyl acrylate copolymer having about 10% to 14% by weight of methacrylic acid.

5 6. The golf ball of claim 5 wherein said dimples are arranged to coincide with a plurality of pentagons, wherein said pentagons are formed from said dodecahedron pattern.

7. The golf ball of claim 6 wherein said dimples are arranged to coincide with a  
10 plurality of triangles, wherein said triangles further subdivide said pentagons.

8. The golf ball of claim 7 wherein said dimples are arranged to coincide with a plurality of rows, wherein said rows further subdivide said triangles

15 9. The golf ball of claim 8 wherein said rows comprise:

a first row wherein said row is adjacent to an apex of said triangle;

a second row adjacent to said first row;

a third row adjacent to said second row wherein said second row  
lies between said first road and said third row.

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10. The golf ball of claim 9 wherein said dimples further comprise:

a first dimple arranged to coincide with said first row;

a second dimple arranged to coincide with said second row and said third row; and,

a third dimple arranged to coincide with said third row.

5 11. The golf ball of claim 10 wherein said dimples have a dual radius.

12. The golf ball of claim 10 wherein said dimples have a depth of 0.005 to 0.007 inches.

10 13. The golf ball of 10 wherein said first dimple has a diameter of 0.10 to 0.13 inches, wherein said second dimple has a diameter of 0.15 to 0.16 inches, and said third dimple 0.13 to 0.15 inches.

14. The golf ball of claim 13 wherein said golf ball has 360 dimples.

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15. The golf ball of claim 8 wherein said dimples are arranged to provide ten uninterrupted great circles paths free of dimples.

16. The golf ball of claim 11 wherein said dual radius dimples comprise a first  
20 radius of about 0.5 to 0.9 inches and a second radius of about 0.9 to 1.3 inches.

17. The golf ball of 16 wherein said first polymer comprises 30% to 90% by weight and said second polymer 10% to 50% by weight of said cover.

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**18. A golf ball comprising:**

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    a core;
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a cover blend comprising:

5 a first polymer comprising an ethylene/methacrylic copolymer having 19% by weight of acid, a melt index of about 2 to 10 grams/10 min, a flexural modulus of 60,000 to 80,000 PSI, a shore D hardness of about 60 to 70; and,

a second polymer comprising an ethylene/methacrylic acid/n-butyl acrylate copolymer having a melt index of about .2 to 2 grams/10 minutes, a flexural modulus of 2,000 to 8,000 PSI;

a plurality of dimples arranged on said cover according to a modified dodecahedron pattern;

a plurality of pentagons, wherein said pentagons subdivide said dodecahedron pattern;

15 a plurality of triangles, wherein said triangles subdivide said pentagons;

a plurality of rows, wherein said rows subdivide said triangles.

19. The golf ball of claim 18 further comprising:

a first row wherein said row is adjacent to an apex of said triangle;

20            a second row adjacent to said first row;

a third row adjacent to said second row wherein said second row lies between said first road and said third row.

20. The golf ball of claim 19 further comprising:

a first dimple arranged to coincide with said first row;

a second dimple arranged to coincide with said second row and said third row; and,

5 a third dimple arranged to coincide with said third row.

21. The golf ball of claim 20 wherein said dimples form ten great circle paths free of dimples and wherein said dimples have a dual radius, wherein said dual radius dimples comprise a first radius of about 0.5 to 0.9 inches and a second radius of  
10 about 0.9 to 1.3 inches.

22. The golf ball of claim 21 wherein said cover has 360 dimples and wherein

23. The golf ball of claim 22 wherein said first dimple has a diameter of 0.10 to  
15 0.13 inches, wherein said second dimple has a diameter of 0.15 to 0.16 inches, and said third dimple 0.13 to 0.15 inches.

24. A golf ball comprising:

a core;

20 a cover blend comprising:

a first polymer comprising an ethylene/methacrylic copolymer having 19% by weight of acid, a melt index of about 2 to 10 grams/10 min, a flexural modulus of 60,000 to 80,000 PSI, a shore D hardness of about 60 to 70; and,

a second polymer comprising an ethylene/methacrylic acid/n-butyl acrylate copolymer having a melt index of about .2 to 2 grams/10 minutes, a flexural modulus of 2,000 to 8,000 PSI;

at least 360 dimples arranged on said cover according to a dodecahedron pattern wherein said dimples form ten great circle paths free of said dimples;

a plurality of pentagons, wherein said pentagons subdivide said dodecahedron pattern;

a plurality of triangles, wherein said triangles subdivide said pentagons;

a plurality of rows, wherein said rows subdivide said triangles, wherein said rows comprise:

a first row wherein said row is adjacent to an apex of said triangle;

a second row adjacent to said first row;

a third row adjacent to said second row wherein said second row lies between said first road and said third row;

a first dimple arranged to coincide with said first row;

a second dimple arranged to coincide with said second row and said third row; and,

a third dimple arranged to coincide with said third row.